

WHAT IS CLAIMED IS:

- Subd 7
1. A tubular prosthesis comprising:
a tubular member, and
an outer covering sealed to portions of said tubular member, a pocket being defined between said tubular member and said outer covering to accommodate a pre-determined agent, said outer covering being impervious to said pre-determined agent.
 2. A prosthesis as in claim 1, wherein said tubular member is a graft.
 3. A prosthesis as in claim 1, wherein said tubular member is a stent/graft combination.
 4. A prosthesis as in claim 3, wherein said stent is expandable.
 5. A prosthesis as in claim 4, wherein said stent is self-expanding.
 6. A prosthesis as in claim 1, wherein said outer covering is pervious to a therapeutic agent disposed in said pocket.
 7. A prosthesis as in claim 1, wherein said tubular member is impervious to said pre-determined agent.
 8. A prosthesis as in claim 1, wherein said pre-determined agent is substantially incompressible.

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9. A prosthesis as in claim 1, wherein said pre-determined agent is a fluid.
10. A prosthesis as in claim 1, wherein said pre-determined agent is in a semisolid state.
11. A prosthesis as in claim 1, wherein said pocket is expandable.
12. A prosthesis as in claim 11, wherein said outer covering is formed of a stretchable material.
13. A prosthesis as in claim 11, wherein said outer covering is pleated about said pocket.
14. A prosthesis as in claim 1, further comprising a fluid conduit in fluid communication with said pocket.
15. A prosthesis as in claim 14, wherein said fluid conduit is in fluid communication with said pocket via a channel.
16. A prosthesis as in claim 1, wherein said tubular member has a first end, said pocket being located in proximity to said first end.
17. A prosthesis as in claim 1, wherein said pocket is annular shaped.

18. A prosthesis as in claim 1, wherein said prosthesis is an endovascular prosthesis.

Sub a27 19. A tubular prosthesis comprising:
a tubular member;
an outer covering sealed to portions of said tubular member, a pocket being defined between said tubular member and said outer covering; and
a filling agent disposed in said pocket.

20. A prosthesis as in claim 19, wherein said agent is substantially incompressible.

21. A prosthesis as in claim 19, wherein said agent is a liquid.

22. A prosthesis as in claim 19, wherein said agent is in a semisolid state.

23. A prosthesis as in claim 19, wherein said agent substantially fills said pocket.

24. A prosthesis as in claim 19, wherein said pocket is at least partially filled by said agent such that at least portions of said outer covering extend from said tubular member.

25. A prosthesis as in claim 19, wherein said pocket is sufficiently filled with said agent to at least partially contiguously contact a wall of a blood vessel.

26. A prosthesis as in claim 19, wherein said pocket is annular shaped.

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27. A prosthesis as in claim 19, wherein said pocket is helical.

28. A prosthesis as in claim 19, wherein said agent is selected from the group consisting of hydrogels, moisture activated urethanes, and cyanoacrylates.

Suba37 29. A method of treating an aneurysm, the method comprising the steps of:
implanting endovascularly an endovascular prosthesis including a tubular member, and an outer covering sealed to portions of said tubular member, a pocket being defined between said tubular member and said outer covering; and
conveying an amount of filling agent into said pocket, said amount being sufficient to at least partially fill said pocket such that said pocket is in at least partial contiguous contact with a wall of blood vessel in proximity to the aneurysm.

30. A method as in claim 29, wherein said filling agent is conveyed in liquid form.

31. A method as in claim 29, wherein the step of conveying is after the step of implanting.

32. A method as in claim 29, further comprising the step of placing a fluid conduit into fluid communication with said pocket.

33. A method as in claim 32, wherein the step of conveying includes conveying said filling agent via said fluid conduit.

34. A method as in claim 32, wherein the step of placing is before the step of implanting.

35. A method as in claim 29, wherein said filling agent is selected from the group consisting of hydrogels, moisture activated urethanes, and cyanoacrylates.

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